

L Number	Hits	Search Text	DB	Time stamp
2	5078	((717/120,124,133,144-146,151,155-159) or (700/87/266) or (707/104.1)).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/24 14:06
9	0	(while same (empty) same remove)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/24 14:10
-	6	(@ad<=20011011 or @rlad<=20011011) and ((alias same (class and referenc\$5)).clm. or (alias same (class and referenc\$5)).ab. )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/23 16:02
-	61	(@ad<=20011011 or @rlad<=20011011) and ((alias same (class ))).clm. or (alias same (class)).ab. )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/21 17:26
-	5	(CFG and (alias same analysis) and (declaration or statement) and (edge or node or vertice))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/23 10:10
-	4	(definition-use and (alias same analysis) and (declaration or statement) and (edge or node or vertice))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/23 16:07
-	3	(@ad<=20011011 or @rlad<=20011011) and (((CFG and (alias same analysis) and (definition same use) and (declaration or statement) and (edge or node or vertice))) or ((CFG and (alias same analysis) and (declaration or statement) and (edge or node or vertice))))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/22 16:49
-	16	(equivalence adj2 class) and ((data or control ) adj3 "flow graph")	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/22 16:45
-	8	CFG and (alias\$3 same ((variable or relationship or dependency or definition-use)) and node)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/22 16:45
-	45	((PUT and GET) or ( memory adj2 access)) and "equivalence class" and alias\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/22 16:47
-	10	(alias same (CFG or "flow graph")) and (assign\$5 same ( node or edge or vertice))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/22 16:49
-	56	(@ad<=20011011 or @rlad<=20011011) and (((equivalence adj2 class) and ((data or control ) adj3 "flow graph")) or (((PUT and GET) or ( memory adj2 access)) and "equivalence class" and alias\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/24 11:28
-	13	(@ad<=20011011 or @rlad<=20011011) and ((CFG and (alias\$3 same ((variable or relationship or dependency or definition-use)) and node)) or ((alias same (CFG or "flow graph")) and (assign\$5 same ( node or edge or vertice))))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/23 10:17

-	1	((@ad<=20011011 or @rlad<=20011011) and (((equivalence adj2 class) and ((data or control ) adj3 "flow graph") ) or (((PUT and GET) or ( memory adj2 access)) and "equivalence class" and alias\$3))) and ((@ad<=20011011 or @rlad<=20011011) and ((CFG and (alias\$3 same ((variable or relationship or dependency or definition-use)) and node)) or ((alias same (CFG or "flow graph")) and (assign\$5 same ( node or edge or vertice))))))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/22 16:50
-	8	((@ad<=20011011 or @rlad<=20011011) and (((equivalence adj2 class) and ((data or control ) adj3 "flow graph") ) or (((PUT and GET) or ( memory adj2 access)) and "equivalence class" and alias\$3))) or ((@ad<=20011011 or @rlad<=20011011) and ((CFG and (alias\$3 same ((variable or relationship or dependency or definition-use)) and node)) or ((alias same (CFG or "flow graph")) and (assign\$5 same ( node or edge or vertice)))))) not (((@ad<=20011011 or @rlad<=20011011) and (((equivalence adj2 class) and ((data or control ) adj3 "flow graph") ) or (((PUT and GET) or ( memory adj2 access)) and "equivalence class" and alias\$3))) or ((@ad<=20011011 or @rlad<=20011011) and ((CFG and (alias\$3 same ((variable or relationship or dependency or definition-use)) and node)) or ((alias same (CFG or "flow graph")) and (assign\$5 same ( node or edge or vertice)))))) and (PUT same GET)) and (alias\$3.ab. or alias\$3.clm.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/22 16:51
-	9	((@ad<=20011011 or @rlad<=20011011) and (((equivalence adj2 class) and ((data or control ) adj3 "flow graph") ) or (((PUT and GET) or ( memory adj2 access)) and "equivalence class" and alias\$3))) or ((@ad<=20011011 or @rlad<=20011011) and ((CFG and (alias\$3 same ((variable or relationship or dependency or definition-use)) and node)) or ((alias same (CFG or "flow graph")) and (assign\$5 same ( node or edge or vertice)))))) and (PUT same GET)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/22 17:25
-	2	5694568.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/23 15:58
-	22	((path or flow) adj2 insensitive) and ( alias near4 analysis)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/23 10:16
-	18	((path or flow) adj2 insensitive) and ( alias near4 analysis)) and (@ad<=20011011 or @rlad<=20011011)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/23 10:19
-	1	(alias same (set or node or CFG or "flow independent")) and (definition-use near6 (associat\$5 or relation\$5 or correspond\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/23 10:56
-	2	6477701.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/23 12:28

-	2	((alias near2 node) same "flow graph") and ((definition or use or successor) adj node)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/23 14:15
-	2	6173444.URPN.	USPAT	2004/09/23 14:06
-	4	("4567574"   "5448737"   "5535394"   "5555412").PN.	USPAT	2004/09/23 14:11
-	2	((generat\$3 or creat\$4 or adding) near3 (alias adj node))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/23 14:22
-	6	Burke.in. and alias and pointer and analysis	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/23 14:22
-	0	(alias same (workset and (add\$3 adj2 node))) and (CFG or flow-insensitive or "alias analysis" or interprocedural or def/use)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/23 16:00
-	13	(alias and ((workset or set) and (add\$3 adj2 node))) and (CFG or flow-insensitive or "alias analysis" or interprocedural or def/use)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/23 16:01
-	9	(@ad<=20011011 or @rlad<=20011011) and ((alias and ((workset or set) and (add\$3 adj2 node))) and (CFG or flow-insensitive or "alias analysis" or interprocedural or def/use))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/23 16:02
-	11	(US-6385496-\$ or US-6275976-\$ or US-6131189-\$ or US-6173444-\$ or US-5485616-\$ or US-6665865-\$ or US-5555412-\$ or US-5448737-\$ or US-5535394-\$).did. or (US-5535394-\$ or US-5485616-\$).did.	USPAT; DERWENT	2004/09/23 16:07
-	4	(definition-use or def/use) and (alias same (graph or CFG or tree))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/23 16:18
-	31	5107418.URPN.	USPAT	2004/09/23 16:14
-	18	("5107418"   "5185810"   "5317718"   "5317740"   "5659754"   "5694568"   "5761468"   "5778233"   "5790859"   "5822788"   "5905876"   "5948095"   "5996061"   "6119218"   "6175898"   "6253306"   "6317810"   "6418516").PN.	USPAT	2004/09/23 16:16
-	13	(US-6385496-\$ or US-6173444-\$ or US-6275976-\$ or US-6131189-\$ or US-5485616-\$ or US-6665865-\$ or US-5535394-\$ or US-5555412-\$ or US-5448737-\$ or US-5175856-\$ or US-5107418-\$).did. or (US-5535394-\$ or US-5485616-\$).did.	USPAT; DERWENT	2004/09/24 11:03
-	2	((US-6385496-\$ or US-6173444-\$ or US-6275976-\$ or US-6131189-\$ or US-5485616-\$ or US-6665865-\$ or US-5535394-\$ or US-5555412-\$ or US-5448737-\$ or US-5175856-\$ or US-5107418-\$).did. or (US-5535394-\$ or US-5485616-\$).did.) and (equivalence adj class)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/24 11:22

-	0	((US-6385496-\$ or US-6173444-\$ or US-6275976-\$ or US-6131189-\$ or US-5485616-\$ or US-6665865-\$ or US-5535394-\$ or US-5555412-\$ or US-5448737-\$ or US-5175856-\$ or US-5107418-\$).did. or (US-5535394-\$ or US-5485616-\$).did.) and ( while near4 empty)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/24 11:22
-	0	((US-6385496-\$ or US-6173444-\$ or US-6275976-\$ or US-6131189-\$ or US-5485616-\$ or US-6665865-\$ or US-5535394-\$ or US-5555412-\$ or US-5448737-\$ or US-5175856-\$ or US-5107418-\$).did. or (US-5535394-\$ or US-5485616-\$).did.) and ( while near4 "not empty")	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/24 11:22
-	0	((US-6385496-\$ or US-6173444-\$ or US-6275976-\$ or US-6131189-\$ or US-5485616-\$ or US-6665865-\$ or US-5535394-\$ or US-5555412-\$ or US-5448737-\$ or US-5175856-\$ or US-5107418-\$).did. or (US-5535394-\$ or US-5485616-\$).did.) and ( "not empty")	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/24 11:23
-	5	((US-6385496-\$ or US-6173444-\$ or US-6275976-\$ or US-6131189-\$ or US-5485616-\$ or US-6665865-\$ or US-5535394-\$ or US-5555412-\$ or US-5448737-\$ or US-5175856-\$ or US-5107418-\$).did. or (US-5535394-\$ or US-5485616-\$).did.) and ( set near8 empty)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/24 11:24
-	0	((US-6385496-\$ or US-6173444-\$ or US-6275976-\$ or US-6131189-\$ or US-5485616-\$ or US-6665865-\$ or US-5535394-\$ or US-5555412-\$ or US-5448737-\$ or US-5175856-\$ or US-5107418-\$).did. or (US-5535394-\$ or US-5485616-\$).did.) and ( set near8 working)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/24 11:25
-	0	((US-6385496-\$ or US-6173444-\$ or US-6275976-\$ or US-6131189-\$ or US-5485616-\$ or US-6665865-\$ or US-5535394-\$ or US-5555412-\$ or US-5448737-\$ or US-5175856-\$ or US-5107418-\$).did. or (US-5535394-\$ or US-5485616-\$).did.) and ( set near8 work)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/24 11:25
-	0	((US-6385496-\$ or US-6173444-\$ or US-6275976-\$ or US-6131189-\$ or US-5485616-\$ or US-6665865-\$ or US-5535394-\$ or US-5555412-\$ or US-5448737-\$ or US-5175856-\$ or US-5107418-\$).did. or (US-5535394-\$ or US-5485616-\$).did.) and (workset)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/24 11:25
-	0	((US-6385496-\$ or US-6173444-\$ or US-6275976-\$ or US-6131189-\$ or US-5485616-\$ or US-6665865-\$ or US-5535394-\$ or US-5555412-\$ or US-5448737-\$ or US-5175856-\$ or US-5107418-\$).did. or (US-5535394-\$ or US-5485616-\$).did.) and (work adj set)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/24 11:26
-	0	alias same (workset and node)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/24 11:31
-	90	alias and (remove adj5 node)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/24 11:31

-	0	((alias and (remove adj5 node)) and ((work adj set) or workset)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/24 11:27
-	44	((alias and (remove adj5 node)) and algorithm	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/24 11:27
-	38	((alias and (remove adj5 node)) and algorithm) and (@ad<=20011011 or @rlad<=20011011)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/24 11:34
-	1	alias and (remove same workset)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/24 11:32
-	0	((remove adj2 node) same workset)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/24 11:32
-	0	((remove adj2 node) and workset)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/24 11:32
-	0	((remove adj2 element) and workset)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/24 13:48
-	0	((initial adj2 value) and workset)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/24 11:33
-	73	((initial\$5 adj2 value) and (work adj set))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/24 11:34
-	61	((((initial\$5 adj2 value) and (work adj set))) and (@ad<=20011011 or @rlad<=20011011)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/24 11:34
-	1	((((initial\$5 adj2 value) and (work adj set))) and (@ad<=20011011 or @rlad<=20011011)) and (remov\$3 near4 node)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/24 11:44
-	3	((US-6385496-\$ or US-6173444-\$ or US-6275976-\$ or US-6131189-\$ or US-5485616-\$ or US-6665865-\$ or US-5535394-\$ or US-5555412-\$ or US-5448737-\$ or US-5175856-\$ or US-5107418-\$).did. or (US-5535394-\$ or US-5485616-\$).did.) and (initial adj2 value)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/24 11:45

**Effects of Pointers on Data Dependences (2001)** ([Make Corrections](#)) ([4 citations](#))

Alessandro Orso, Saurabh Sinha, Mary Jean Harrold

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**Abstract:** This paper presents a technique for computing and classifying data dependences that takes into account the complexities introduced by specific language constructs, such as pointers, arrays, and structures. The classification is finergrained than previously proposed classifications. Moreover, unlike previous work, the paper presents empirical results that illustrate the distribution of data dependences for a set of C subjects. The paper also presents a potential application for the proposed... ([Update](#))

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.... techniques to represent exception handling constructs [16] Orso, Harrold, and Sinha studied data dependences in complex languages [12, 13]; and Harrold and Liang tailored existing escape analysis techniques [3, 5] to the Java language [11] To address this vulnerability,...

.... have prerequisites like pointer analysis onto precision and speed of the different slicing chopping algorithms (Some results for SIS are presented in [11, 12]. Second, how are applications that use slicing or chopping influenced by the different algorithms Based on our...

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2: Interprocedural slicing using dependence graphs - Horwitz, Reps et al. - 1990

2: The program dependence graph and its use in optimization (context) - Ferrante, Ottenstein et al. - 1987

2: Program Slicing (context) - Weiser - 1984

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A. Orso, S. Sinha, and M. J. Harrold. Effects of pointers on data dependences. In Proc. of the 9 th International Workshop on Program Comprehension, May 2001. (To appear). <http://citeseer.ist.psu.edu/article/orso01effects.html> [More](#)

```
@misc{ orso01effects,
  author = "A. Orso and S. Sinha and M. Harrold",
  title = "Effects of pointers on data dependences",
  text = "A. Orso, S. Sinha, and M. J. Harrold. Effects of pointers on data dependences.
    In Proc. of the 9 th International Workshop on Program Comprehension, May
    2001. (To appear).",
  year = "2001",
  url = "citeseer.ist.psu.edu/article/orso01effects.html" }
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- 209 Program analysis and specialization for the C programming la. (context) - Andersen - 1994
- 206 Points-to analysis in almost linear time - Steensgaard - 1996
- 169 A safe approximate algorithm for interprocedural pointer ali.. - Landi, Ryder - 1992
- 157 Selecting software test data using data flow information (context) - Rapps, Weyuker - 1985
- 141 and Tools (context) - Aho, Sethi et al. - 1986
- 88 An applicable family of data flow testing criteria (context) - Frankl, Weyuker - 1988
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- 34 Reuse-driven interprocedural slicing - Harrold, Ci - 1998
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- 14 Effective wholeprogram analysis in the presence of pointers - Atkinson, Griswold - 1998
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- 2 Special issue on program slicing (context) - Canfora, Cimitile et al. - 1998
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